SAFETY DATA SHEET

1. Identification

Product identifier: CLAIRE CONTACT CLEANER

Other means of identification
SDS number: RE1000029308

Recommended restrictions
Product Use: Cleaner
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer
Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integram Dr
          Pacific, MO 63069
Telephone: 1-630-543-7600
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards
  Flammable aerosol  Category 1

Health Hazards
  Skin Corrosion/Irritation  Category 2
  Toxic to reproduction  Category 2
  Specific Target Organ Toxicity - Single Exposure  Category 3
  Specific Target Organ Toxicity - Repeated Exposure  Category 2
  Aspiration Hazard  Category 1

Target Organs
  1. Narcotic effect.

Environmental Hazards
  Acute hazards to the aquatic environment  Category 2
Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of water/... If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor/... Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>50 - &lt;100%</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>25 - &lt;50%</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>0 - &lt;0.1%</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>0 - &lt;0.1%</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>108-88-3</td>
<td>0 - &lt;0.1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>PEL</td>
<td>100 ppm 400 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>300 ppm 1,350 mg/m3</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)</td>
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<tr>
<td></td>
<td>STEL</td>
<td>400 ppm 1,800 mg/m3</td>
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<tr>
<td>Compound</td>
<td>Measurement</td>
<td>Value</td>
<td>Source</td>
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<tr>
<td>---------------</td>
<td>-------------</td>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hexane</td>
<td>TWA</td>
<td>100 ppm</td>
<td>400 mg/m³</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>100 ppm</td>
<td>400 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>3,500 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td></td>
<td>AN ESL</td>
<td>350 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>400 mg/m³</td>
</tr>
<tr>
<td>Hexane</td>
<td>TWA PEL</td>
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<td>180 mg/m³</td>
</tr>
<tr>
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<td>TWA</td>
<td>50 ppm</td>
<td>180 mg/m³</td>
</tr>
<tr>
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<td>TWA</td>
<td>50 ppm</td>
<td>180 mg/m³</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>500 ppm</td>
<td>1,800 mg/m³</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>50 ppm</td>
<td>180 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 ppm</td>
<td>180 mg/m³</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>200 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<td>ST ESL</td>
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<td>AN ESL</td>
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<td>2-Propanol</td>
<td>REL</td>
<td>400 ppm</td>
<td>980 mg/m³</td>
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<td>STEL</td>
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<td>US. ACGIH Threshold Limit Values (2008)</td>
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<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>1,225 mg/m³</td>
</tr>
<tr>
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<td>TWA</td>
<td>400 ppm</td>
<td>980 mg/m³</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
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<td>980 mg/m³</td>
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<td>980 mg/m³</td>
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<td>TWA</td>
<td>200 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
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<td>TWA PEL</td>
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<td>Cyclohexane</td>
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<td>Parameter</td>
<td>Value</td>
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<tr>
<td>Benzene REL</td>
<td>0.1 ppm</td>
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<tr>
<td>Ceiling</td>
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<td>US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)</td>
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<td>STEL</td>
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<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
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<tr>
<td>TWA A LV</td>
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<td>5 ppm</td>
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<td>TWA PEL</td>
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<tr>
<td>ST ESL</td>
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<tr>
<td>STEL</td>
<td>2.5 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
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<td>OSHA_AC T</td>
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<tr>
<td>TWA</td>
<td>10 ppm</td>
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<tr>
<td>MAX. CONC</td>
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<tr>
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<tr>
<td>Compound</td>
<td>Unit</td>
<td>Concentration</td>
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<td>-----------------</td>
<td>------------</td>
<td>---------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
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<tr>
<td>Heptane</td>
<td>TWA</td>
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<tr>
<td></td>
<td>TWA</td>
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<td>US. ACGIH Threshold Limit Values (02 2012)</td>
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<td>STEL</td>
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<td>US. ACGIH Threshold Limit Values (02 2012)</td>
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<td>TWA</td>
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<tr>
<td></td>
<td>ST ESL</td>
<td>10,000 µg/m3</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>ST ESL</td>
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<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>400 ppm</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)</td>
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<tr>
<td></td>
<td>AN ESL</td>
<td>660 ppb</td>
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<tr>
<td></td>
<td>TWA PEL</td>
<td>10 ppm</td>
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<tr>
<td></td>
<td>REL</td>
<td>100 ppm</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
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<tr>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
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<tr>
<td></td>
<td>Ceiling</td>
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<td>US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>20 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
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<tr>
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<td>Ceiling</td>
<td>500 ppm</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>1,200 µg/m3</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
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<td>200 ppm</td>
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<tr>
<td></td>
<td>MAX. CONC</td>
<td>500 ppm</td>
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<tr>
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<td>ST ESL</td>
<td>4,500 µg/m3</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
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<td>ST ESL</td>
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<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)</td>
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<tr>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
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</table>
### Biological Limit Values

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane (2,5-Hexanedion; without hydrolysis: Sampling time: End of shift.)</td>
<td>0.5 mg/l (Urine)</td>
<td>ACGIH BEL (03 2018)</td>
</tr>
<tr>
<td>2-Propanol (acetone: Sampling time: End of shift at end of work week.)</td>
<td>40 mg/l (Urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene (t,t-Muconic acid: Sampling time: End of shift.)</td>
<td>500 µg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)</td>
<td>25 µg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene, methyl- (toluene: Sampling time: End of shift.)</td>
<td>0.03 mg/l (Urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)</td>
<td>0.3 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)</td>
<td>0.02 mg/l (Blood)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
</tbody>
</table>

### Appropriate Engineering Controls

**No data available.**

### Individual protection measures, such as personal protective equipment

**General information:** Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** No data available.

**Other:** Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

### 9. Physical and chemical properties
Appearance

Physical state: liquid
Form: Spray Aerosol
Color: No data available.
Odor: No data available.
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: -50 °C
Evaporation rate: No data available.
Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper (%): No data available.
- Explosive limit - lower (%): No data available.

Vapor pressure: No data available.
Vapor density: No data available.
Density: No data available.
Relative density: No data available.

Solubility(ies)
- Solubility in water: No data available.
- Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.
Conditions to avoid: Avoid heat or contamination.
Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on likely routes of exposure
Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Naphtha (petroleum), hydrotreated light
LD 50 (Rat): > 5,000 mg/kg

Hexane
LD 50: > 2,000 mg/kg

2-Propanol
LD 50 (Rat): 5.84 g/kg

Cyclohexane
LD 50 (Rat): > 5,000 mg/kg

Benzene
LD 50 (Rat): 5,970 mg/kg

Heptane
LD 50 (Rat): > 5,000 mg/kg

Benzene, methyl-
LD 50 (Rat): 5,580 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Naphtha (petroleum), hydrotreated light
LD 50 (Rabbit): > 3,750 mg/kg

Hexane
LD 50 (Rabbit): > 2,000 mg/kg

2-Propanol
LD 50: > 2,000 mg/kg
Cyclohexane LD 50 (Rabbit): > 2,000 mg/kg
Benzene LD 50: > 2,000 mg/kg
Heptane LD 50 (Rabbit): > 2,000 mg/kg
Benzene, methyl- LD 50 (Rabbit): > 5,000 mg/kg

**Inhalation Product:**
Not classified for acute toxicity based on available data.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - LOAEL (Human): 2,400 mg/m³
  - LC 50 (Rat): > 7,630 mg/m³

- Hexane
  - LC 50 (Rat): > 31.86 mg/l

- 2-Propanol
  - LC 50: > 5 mg/l
  - LC 50: > 20 mg/l

- Cyclohexane
  - LC 50 (Rat): > 32,880 mg/m³

- Benzene
  - LC 50 (Rat): 43,767 mg/m³

- Heptane
  - LC 50 (Rat): > 29.29 mg/l

- Benzene, methyl-
  - LC 50 (Rat): 28.1 mg/l

**Repeated dose toxicity Product:**
No data available.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Read-across based on grouping of substances (category approach), Key study
  - NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study
  - NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m³ Inhalation Experimental result, Key study

- Hexane
  - NOAEL (Mouse(Male), Inhalation, 13 Weeks): 500 ppm(m) Inhalation Experimental result, Key study
  - LOAEL (Mouse(Male), Inhalation, 13 Weeks): 1,000 ppm(m) Inhalation Experimental result, Key study
  - LOAEL (Rat(Male), Inhalation, 16 Weeks): 3,000 ppm(m) Inhalation Experimental result, Key study
  - LOAEL (Mouse(Female), Inhalation, 13 Weeks): 500 ppm(m) Inhalation Experimental result, Key study
Experimental result, Key study

2-Propanol
NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation
Experimental result, Key study

Cyclohexane
NOAEL (Rat(Female, Male), Inhalation, 13 - 18 Weeks): 7,000 ppm(m) Inhalation
Experimental result, Key study
NOAEL (Mouse(Female, Male), Inhalation, 13 - 18 Weeks): 500 ppm(m) Inhalation
Experimental result, Key study

Benzene
NOAEL (Rat(Male), Oral, 120 d): 100 mg/kg Oral Experimental result, Key study
NOAEL (Mouse(Female, Male), Inhalation, 7 - 91 d): 96 mg/m3 Inhalation
Experimental result, Key study
LOAEL (Rat(Female), Oral, 120 d): 25 mg/kg Oral Experimental result, Key study

Heptane
NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental result, Key study

Benzene, methyl-
LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Experimental result, Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>in vivo (Rabbit): Not Classified</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>Review (Various): Irritating.</td>
<td>Experimental result, Weight of Evidence study</td>
</tr>
<tr>
<td>Benzene</td>
<td>in vivo (Rabbit): Irritating</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Heptane</td>
<td>in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study</td>
<td></td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>in vivo (Rabbit): Irritating</td>
<td>Experimental result, Key study</td>
</tr>
</tbody>
</table>

Serious Eye Damage/Eye Irritation
Product: No data available.

Specified substance(s):

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>Rabbit, 24 - 72 hrs: Not irritating</td>
</tr>
<tr>
<td>Hexane</td>
<td>Rabbit, 1 - 72 hrs: Not irritating</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>Rabbit, 1: Irritating.</td>
</tr>
<tr>
<td>Benzene</td>
<td>Rabbit: Irritating.</td>
</tr>
<tr>
<td>Heptane</td>
<td>Rabbit, 24 - 72 hrs: Not irritating</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>Rabbit, 24 - 72 hrs: Not irritating</td>
</tr>
</tbody>
</table>

Respiratory or Skin Sensitization

SDS_US - RE10000029308
Product: No data available.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - Skin sensitization: in vivo (Guinea pig): Non sensitising
- 2-Propanol
  - Skin sensitization: in vivo (Guinea pig): Non sensitising
- Cyclohexane
  - Skin sensitization: in vivo (Guinea pig): Non sensitising
- Heptane
  - Skin sensitization: in vivo (Guinea pig): Non sensitising
- Benzene, methyl-
  - Skin sensitization: in vivo (Guinea pig): Non sensitising

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s):**
- Benzene
  - Cancer hazard - can cause cancer.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**
No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**
No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s):**
- Hexane
  - Suspected of damaging fertility or the unborn child.
- Benzene, methyl-
  - Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Narcotic effect. - Category 3 with narcotic effects.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Category 2

**Target Organs**

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - May be fatal if swallowed and enters airways.
- Cyclohexane
  - May be fatal if swallowed and enters airways.
- Benzene
  - May be fatal if swallowed and enters airways.
Heptane      May be fatal if swallowed and enters airways.  
Benzene, methyl-      May be fatal if swallowed and enters airways.  

Other effects:    No data available.  

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product:    No data available.

Specified substance(s):    
Naphtha (petroleum), hydrotreated light    LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Hexane    LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.101 - 2.981 mg/l Mortality
2-Propanol    LC 50 (Pimephales promelas, 96 h): 9,640 mg/l Experimental result, Key study
Cyclohexane    LC 50 (Pimephales promelas, 96 h): 4.53 mg/l Experimental result, Key study
Benzene    LC 50 (Onchorhynchus mykiss, 96 h): 5.3 mg/l Experimental result, Key study
Heptane    LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality
Benzene, methyl-    LC 50 (Onchorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study

Aquatic Invertebrates
Product:    No data available.

Specified substance(s):    
Naphtha (petroleum), hydrotreated light    EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Hexane    EC 50 (Daphnia magna, 48 h): 21.85 mg/l QSAR QSAR, Key study
LC 50 (Water flea (Daphnia magna), 24 h): > 50 mg/l Mortality
2-Propanol    LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study
Cyclohexane    EC 50 (Daphnia magna, 48 h): 0.9 mg/l Experimental result, Key study
Benzene    EC 50 (Daphnia magna, 24 h): 10 mg/l Experimental result, Key study
Heptane    EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study
Benzene, methyl-    LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality
LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:
**Fish**

**Product:** No data available.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - EC 50 (Daphnia magna): 10 mg/l Other, Key study
  - NOAEL (Daphnia magna): 2.6 mg/l Other, Key study
  - Hexane
    - NOAEL (Oncorhynchus mykiss): 2.8 mg/l QSAR QSAR, Key study
  - Benzene
    - LC 50 (Oncorhynchus mykiss): 8.64 mg/l Experimental result, Supporting study
  - Heptane
    - NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study
  - Benzene, methyl-
    - NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study
    - LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study
  - NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study
  - Hexane
    - NOAEL (Daphnia magna): 4.888 mg/l QSAR QSAR, Key study
  - Benzene
    - NOAEL (Daphnia magna): 98 mg/l Not specified, Not specified
  - Heptane
    - NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of substances (category approach), Key study
    - EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of substances (category approach), Key study
  - Benzene, methyl-
    - LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study
    - NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**
- Naphtha (petroleum), hydrotreated light
  - 90.35 % (28 d) Detected in water. Experimental result, Supporting study
  - Hexane
    - 81 % Detected in water. Read-across based on grouping of substances (category approach), Key study
  - 2-Propanol
    - 53 % (5 d) Detected in water. Experimental result, Key study
  - Cyclohexane
    - 77 % (28 d) Detected in water. Experimental result, Key study
  - Benzene
    - 4 - 88 % (28 d) Detected in water. Experimental result, Supporting study
    - 81 % Detected in water. Experimental result, Key study
Heptane 70 % Detected in water. Experimental result, Key study
Benzene, methyl- 100 % (14 d) Detected in water. Experimental result, Weight of Evidence study
86 % Detected in water. Experimental result, Weight of Evidence study

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Specified substance(s):
Naphtha (petroleum), hydrotreated light Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
Hexane Pimephales promelas, Bioconcentration Factor (BCF): 501.19 Aquatic sediment QSAR, Key study
Cyclohexane Cyprinus carpio, Bioconcentration Factor (BCF): 37 - 129 Aquatic sediment Experimental result, Supporting study
Benzene Northern anchovy (Engraulis mordax), Bioconcentration Factor (BCF): 505 (Static) Engraulis mordax; Morone saxatilis, Bioconcentration Factor (BCF): 309 Aquatic sediment Experimental result, Supporting study
Heptane Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study
Benzene, methyl- Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Specified substance(s):
Naphtha (petroleum), hydrotreated light Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study
Log Kow: 2.2 - 5.2 23 °C Yes Experimental result, Key study
Log Kow: 2.2 - 6.1 23 °C Yes Experimental result, Key study
Benzene Log Kow: 1.56 - 2.15 25 °C No Not specified, Not specified

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Naphtha (petroleum), hydrotreated light No data available.
Hexane No data available.
2-Propanol No data available.
Cyclohexane No data available.
Benzene No data available.
Heptane No data available.
Benzene, methyl- No data available.

Other adverse effects: Toxic to aquatic organisms.
13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.

14. Transport information

**DOT**

- **UN Number:** UN 1950
- **UN Proper Shipping Name:** Aerosols, flammable
- **Transport Hazard Class(es):**
  - **Class:** 2.1
  - **Label(s):** –
  - **Packing Group:** II
  - **Marine Pollutant:** No
  - **Environmental Hazards:** No
  - **Marine Pollutant:** No
  - **Special precautions for user:** Not regulated.

**IMDG**

- **UN Number:** UN 1950
- **UN Proper Shipping Name:** Aerosols, flammable
- **Transport Hazard Class(es):**
  - **Class:** 2
  - **Label(s):** –
  - **EmS No.:** F-D, S-U
  - **Packing Group:** –
  - **Environmental Hazards:** No
  - **Marine Pollutant:** Yes
  - **Special precautions for user:** Not regulated.

**IATA**

- **UN Number:** UN 1950
- **Proper Shipping Name:** Aerosols, flammable
- **Transport Hazard Class(es):**
  - **Class:** 2.1
  - **Label(s):** –
  - **Packing Group:** –
  - **Environmental Hazards:** No
  - **Marine Pollutant:** Yes
  - **Special precautions for user:** Not regulated.
  - **Cargo aircraft only:** Forbidden.
15. Regulatory information

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>OSHA hazard(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>respiratory tract irritation</td>
</tr>
<tr>
<td></td>
<td>Central nervous system</td>
</tr>
<tr>
<td></td>
<td>Blood</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td>Flammability</td>
</tr>
<tr>
<td></td>
<td>Cancer</td>
</tr>
<tr>
<td></td>
<td>Aspiration</td>
</tr>
<tr>
<td></td>
<td>Eye</td>
</tr>
</tbody>
</table>

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Benzene</td>
<td>lbs. 10</td>
</tr>
<tr>
<td>Heptane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Fire Hazard
- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard
- Flammable aerosol
- Skin Corrosion/Irritation
- Toxic to reproduction
- Specific Target Organ Toxicity - Single Exposure
- Specific Target Organ Toxicity - Repeated Exposure
- Aspiration Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Benzene</td>
<td>lbs. 10</td>
</tr>
<tr>
<td>Heptane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
</tbody>
</table>
SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
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<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Hexane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Heptane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for manufacturing and processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane</td>
<td>lbs</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>lbs</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>lbs</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Hexane Male reproductive toxin. 12 2017
Benzene Developmental toxin. 03 2008
Benzene Carcinogenic. 05 2011
Benzene Male reproductive toxin. 03 2008
Benzene, methyl- Developmental toxin. 03 2008

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Hexane
Ethane, 1,1-difluoro-
2-Propanol
Cyclohexane

US. Massachusetts RTK - Substance List
Chemical Identity
Benzene

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
Hexane
2-Propanol
Cyclohexane

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.
International regulations

**Montreal protocol**
Ethane, 1,1-difluoro-

Group I Annex F

**Stockholm convention**
Not applicable

**Rotterdam convention**
Not applicable

**Kyoto protocol**

**Inventory Status:**

- Australia AICS: On or in compliance with the inventory
- Canada DSL Inventory List: On or in compliance with the inventory
- EINECS, ELINCS or NLP: Not in compliance with the inventory.
- Japan (ENCS) List: On or in compliance with the inventory
- China Inv. Existing Chemical Substances: On or in compliance with the inventory
- Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory
- Canada NDSL Inventory: Not in compliance with the inventory.
- Philippines PICCS: On or in compliance with the inventory
- US TSCA Inventory: On or in compliance with the inventory
- New Zealand Inventory of Chemicals: On or in compliance with the inventory
- Japan ISHL Listing: On or in compliance with the inventory
- Japan Pharmacopoeia Listing: Not in compliance with the inventory.
- Mexico INSQ: On or in compliance with the inventory
- Ontario Inventory: On or in compliance with the inventory
- Taiwan Chemical Substance Inventory: On or in compliance with the inventory

SDS_US - RE1000029308 20/21
### 16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th><strong>Issue Date:</strong></th>
<th>06/11/2019</th>
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<tbody>
<tr>
<td><strong>Revision Information:</strong></td>
<td>No data available.</td>
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<tr>
<td><strong>Version #:</strong></td>
<td>1.0</td>
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<td><strong>Further Information:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Disclaimer:</strong></td>
<td>This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.</td>
</tr>
</tbody>
</table>